# OKIPAGE 14ex, 14i and 14i/n

*Setup Guide*

# Preface

Every effort has been made to ensure that the information in this document is complete, accurate, and up-to-date. Oki assumes no responsibility for the results of errors beyond its control. Oki also cannot guarantee that changes in software and equipment made by other manufacturers and referred to in this guide will not affect the applicability of the information in it. Mention of software products manufactured by other companies does not necessarily constitute endorsement by Oki.

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# EEC compatibility

CE

This product complies with the requirements of the Council Directives 89/336/EEC (EMC) and 73/23/EEC (LVD), as amended where applicable, on the approximation of the laws of the member states relating to Electromagnetic Compatibility and Low Voltage.

# Energy Star

As an Energy Star Partner, Oki has determined that this product meets the Energy Star guidelines for energy efficiency.

# Universal Serial Bus

This printer is fitted with an industry standard universal serial bus (USB) data interface.

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# Safety instructions

This printer has been carefully designed to give years of safe, reliable performance. As with all electrical equipment, however, there are a few basic precautions that should be taken to avoid personal injury or damaging the printer:

- Read this setup guide carefully and save it for future reference.
- Read and follow all warning and instruction labels on the printer itself.
- Disconnect the printer before cleaning. Use only a damp cloth. Do not use liquid or aerosol cleaners to clean the printer.
- Place the printer on a firm, solid surface. If the printer is placed on something unsteady, it may fall and become damaged or injure someone. If the printer is placed on a soft surface, such as a rug, sofa, or bed, the vents may become blocked causing the printer to overheat.
- Do not put the printer on or near a heat source, such as a radiator or heat register. Keep it out of direct sunlight. Allow enough room around the printer for adequate ventilation and easy access.
- Do not use the printer near water, or spill liquid of any kind into it.
- Make sure that the power source matches the rating listed on the back of the printer. If you are not sure, check with your dealer or with your local power company.
- This printer has an earthed, 3-pin plug as a safety feature and will only connect to an earthed outlet. If this plug cannot be connected to a power outlet, then it is possible that the power outlet is of the older, non-earthed type. Contact an electrician to have the power outlet replaced. Do not use an adapter to defeat the earthing.
- To avoid damaging the power cable, do not put anything on it or place it where it will be walked on. If the cable becomes damaged or frayed, replace it immediately.
- If an extension cable or power strip is being used with the printer, make sure that the total of the amperage rating required by all the equipment is less than the rating of the extension cable or power strip. The total ratings of all equipment plugged into the outlet should not exceed 13 amperes.

- The power outlet into which the printer is connected must remain accessible at all times.
- Opening any cover may expose hot surfaces. These are clearly labelled. Do NOT touch them.
- Do not insert anything into the ventilation slots on the printer; you could get a shock or cause a fire.
- Aside from the routine maintenance described in this user's guide, do not try to service the printer yourself. Opening a cover may expose you to shocks or other hazards.
- Do not make any adjustments other than those outlined in this users guide as damaged may be caused to the printer.

If anything happens that indicates that the printer is not working properly or has been damaged, disconnect the printer from the power source and contact your dealer. These are some of the things to look for:

- The power cable or plug is frayed or damaged.
- Liquid has been spilled into the printer, or it has been exposed to water.
- The printer has been dropped, or the cabinet is damaged.
- The printer does not function normally when following the operating instructions.

## Toner cartridge and image drum handling

- Leave unused toner cartridges and image drum units in their packages until needed. When replacing a toner cartridge or image unit, reuse the packaging to dispose of the old toner cartridge or image drum unit.
- Do not expose the toner cartridges and image drum units to light for more than five minutes. Never expose the green drum (inside the image drum unit) to direct sunlight.
- Always hold the image drum unit by the ends - never by the middle. Never touch the green drum inside the image drum unit.
- To avoid damage to the image drum unit, always use original toner cartridges.
- Exercise care when removing the toner cartridge. Do not let it touch your clothing or porous materials. The toner powder causes permanent stains.

- Small amounts of toner spilled on skin or clothing can be readily removed with soap and cold water. Using heated water will make removing the stain much more difficult.

## Emergency first aid

- **IF TONER IS SWALLOWED:** Induce vomiting and seek medical attention. Never attempt to induce vomiting or give anything by mouth to a person who is unconscious.
- **IF TONER IS INHALED:** Take the person to an open area for fresh air. Seek medical attention.
- **IF TONER GETS IN THE EYES:** Flush eyes with large quantities of cool, NOT cold, water for a minimum of 15 minutes keeping eyelids open with fingers. Seek medical attention.

# Printer features

- LED 14ppm Page Printer
- 600 dpi LED head with a maximum resolution of 600 × 1200 dpi
- Adobe Postscript 2 (V2017) (14i only) and HP LaserJet 6p (PCL6) compatible
- Standard memory 4MB (14ex); 8MB (14i)
- High speed, bi-directional parallel interface (IEEE-1284) and USB interface
- Fast RISC processor for speedy printing (MIPS R3000)
- Enhanced memory management to print more graphics with less memory
- Advanced power saving mode; printer idles on minimum power to save energy
- 14ex: 45 PCL fonts, 1 bitmap font, OCRA and B fonts.

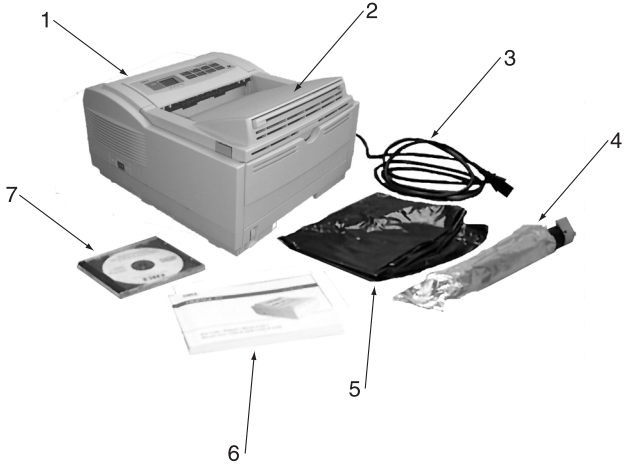
  14i: 45 PCL fonts, 37 PostScript scalable fonts, 1 bitmap font, OCRA and B fonts.
- Paper output 150 sheets face down, 50 sheets face up
- Paper input tray capacity 250 sheets
- Paper weight – 60 to 120g/m²
- Standard manual feed for card stock, envelopes, transparencies, etc.
- Works with recycled paper
- Duty Cycle – up to 15 000 pages per month

## Optional accessories

- 500 sheet universal second paper tray
- 100 sheet/50 envelope Multi-Purpose Feeder
- SIMM module for an additional 8, 16 or 32MB of memory
- 4MB and 8MB Flash SIMM
- RS232C Serial interface card
- Network Card - (14i PC or Mac; 14ex - PC only)

***Note:*** *The Network card for the OKIPAGE 14ex has 8MB memory on board.*

# Unpacking



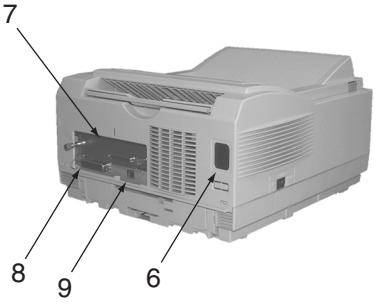

After unpacking the printer and choosing a suitable place to put it, check that all the necessary parts are available to continue:

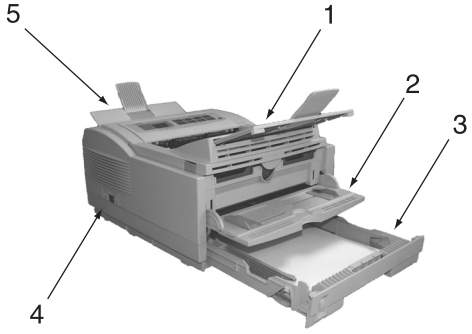
1. Printer
2. Image drum cartridge (already installed inside the printer)
3. Power cable
4. Toner cartridge
5. Lightproof plastic bag (for storing image drum if printer must be shipped).
6. Setup guide
7. CD-ROM containing printer drivers and documentation.

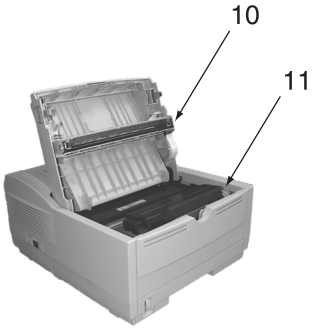
If anything is missing, contact the dealer for a replacement.

# Printer components

1. Top paper exit bin.
2. Manual feed tray.
3. Automatic paper feed tray.
4. Power switch.
5. Rear paper exit tray.
6. Power cable connection.
7. Optional card slot.
8. Bi-directional parallel interface port.
9. USB interface port
10. LED array.
11. Image drum with toner cartridge installed.



# Setting up

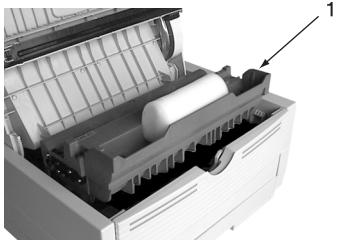
Before connecting this printer to a PC and power supply, the toner cartridge must be installed and paper inserted in the paper tray.

## Protective sheet removal

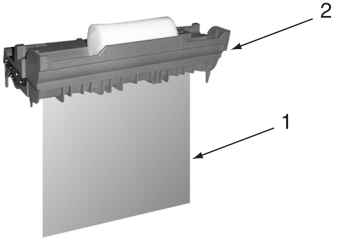
1. Remove any adhesive tape and packaging from the printer. Press both release buttons (1) and open the cover.

***CAUTION:***
*Never expose the image drum unit to light for more than 5 minutes. Never expose the image drum unit to direct sunlight. Always hold the image drum unit by the ends. Never touch the surface of the green drum inside the image drum unit.*

2. Remove the image drum (1) from the printer.




3. Remove the protective sheet (1) from the image drum (2).

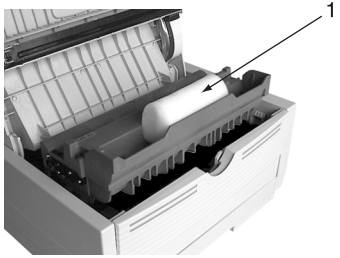



4. Replace the image drum.

## Toner cartridge installation

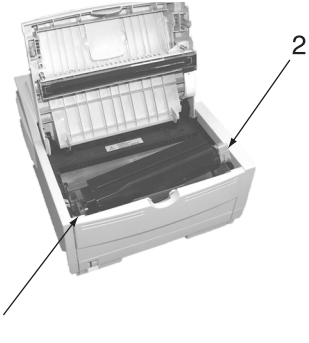
***WARNING***
***Be careful when handling the toner cartridge. Do not let toner spill on your clothing or other porous materials.***

1. Remove the sponge packaging (1) from the image drum and discard.




2. Shake the toner cartridge to evenly distribute toner.
3. Unwrap the new toner cartridge and carefully peel off the sealing tape.

4. Insert the cartridge into the printer, left end (1) first as illustrated.

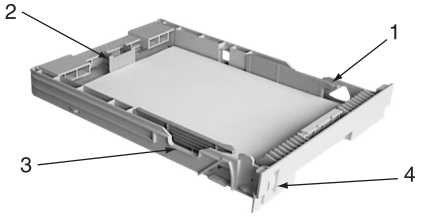



5. Push the coloured tab (2) forward to release the toner into the toner hopper.
6. Close the printer cover.

## Paper installation

***Note:*** *Please refer to the user guide for the types and weights of paper to use in this printer.*

1. Remove the paper tray from the bottom of the printer and place plain paper in the tray, keeping the level of the paper in the tray below the guide marks (1).



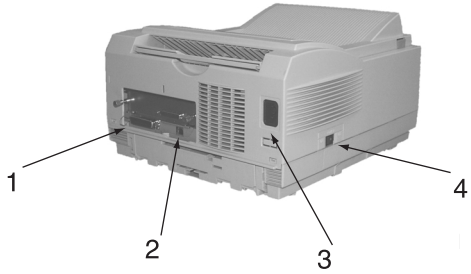

2. Adjust the rear paper support (2) to the size of paper you are using by lifting up and sliding forwards or backwards as necessary.
3. Adjust the paper guides (3).
4. Replace the tray in the printer. The paper level indicator (4) provides a visual indication of how much paper is left in the tray.

## Printer connection

***CAUTION:***
*Make sure the printer is disconnected from the power supply and the computer is turned off.*

### Parallel cable

1. Connect the parallel cable into the parallel socket (1) on the printer.




2. Connect the other end of the parallel cable into the parallel port on the computer.

***Note:*** *The parallel cable should support bi-directional communication and must be shielded.*

### USB cable

1. Connect the Type B (square) connector on the cable to the USB interface connector (2) at the rear of the printer.
2. Connect the Type A (small, flat) connector on the other end of the cable to the USB port on the computer.

### Power cable

1. Connect the power cable into the power socket (3) on the printer, then into a grounded outlet.
2. Switch the printer on using the main power switch (4).

## Network connection (14i/n only)

1. Connect a network interface cable into the RJ45 socket at the rear of the printer.
2. Connect the other end of the network interface cable into a network hub.
3. Refer to the Network Administrator's Guide that is on the CD supplied with the printer for further information on how to complete the network connection.

# Windows setup

A printer driver is software which runs on a computer after installation. It passes data from software programs and applications suitably formatted so that the printer can understand and produce a printed page(s). This printer comes with a CD-ROM that contains printer drivers for both Windows and Macintosh.

Windows users should use the printer drivers that have been supplied with the printer for best results. These have been designed specifically for this printer and will make best use of all its features.

If using other operating systems, select a printer driver designed for use with HP LaserJet for the best results.

***Note 1:*** *Please refer to the readme file on the software installation disk that came with the printer for the latest information on the installation of the printer driver and its associated software.*

***Note 2:*** *Parallel interface cable is not included. The parallel interface cable must be bi-directional and to standard IEEE 1284-1994.*

***Note 3:*** *No USB interface cable is supplied with the printer. Please use a USB interface cable that is compatible with USB specification 1.1.*

## Printer connection

1. If you are using a **Parallel** cable connection:

| Operating System | Action |
|---|---|
| Win95, 98, NT4, 2000, | Install the Printer driver |

2. If you are using a **USB** cable connection:

| Operating System | Action |
|---|---|
| Win 95, NT 4 | USB not supported |
| Win 98 | Install the USB Port driver, then the Printer driver |
| Win 2000, Me | Install the Printer driver. (USB Port driver is automatically installed by the Windows operating system) |

## USB Port driver

***Note:*** *Installation of USB driver is only required for Windows 98.*

### General

A USB interface has the following restrictions:

- Will not operate using a MS-DOS or Windows 95/3.1/NT 4.0/NT 3.51 operating system.
- Will not operate using a Windows 98 operating system that has been upgraded from a Windows 95/3.1 operating system.
- Do not disconnect the USB interface cable during printing.
- Do not immediately disconnect and connect the USB cable or vice versa. Wait at least 5 seconds before re-connecting or disconnecting the cable.
- The operation of a printer is not assured if a USB compatible device is connected concurrently with other USB-compatible machines.
- When connecting multiple printers of the same type, they appear in the print folder as *****, ***** (copy2), ***** (copy3), etc. These numbers depend on the order of connecting or turning on each printer.
- If a USB hub is used, it is necessary to connect the USB hub directly to the computer.

### Installation

1. After the [Add New Hardware Wizard] window appears, click on [Next].
2. Select [Search for the best driver for my device (Recommended)] and click on [Next].
3. Insert the printer software CD-ROM disk into the CD-ROM drive.
4. Make sure CD-ROM drive is checked and click on [Next].
5. After Windows finds the USB driver, click on [Next].
6. After files have finished copying, click on [Finish].
7. If the [Add New Hardware Wizard] window appears again, click on [Cancel] and restart the computer.

## Configuration

If the [Add New Hardware Wizard] window appears, follow the instructions below for "Plug-and-play Configuration". Otherwise follow the instructions for "Add Printer Configuration".

### Plug and play configuration

1. Windows 2000/ME - After [Found New Hardware Wizard] appears, insert the CD-ROM into the CD drive , click on [Next] and follow the on-screen instructions.
2. Windows 95/98 - After [Add New Hardware Wizard] appears, insert the CD-ROM into the CD drive, click on [Next] and follow the on-screen instructions to install the printer driver.

   In both the above cases, when prompted to choose a printer driver, click on [Have Disk] and browse to the folder on the CD that contains the driver for your preferred language and operating system.

***Note 1:*** *Plug-and-Play installations are not supported on Windows NT 4.0.*

***Note 2:*** *Administrator privileges are required when installing in Windows 2000.*

### Add Printer Configuration

1. Windows 95/98/2000/Me/NT4.0 - Click on [Start] > [Settings] > [Printers].
2. Double click on [Add Printer] icon.
3. Insert the CD-ROM into the CD drive, click on [Next] and follow the on-screen instructions. When prompted to choose a printer driver, click on [Have Disk] and browse to the folder on the CD that contains the driver for your preferred language and operating system.

***Note:*** *Administrator privileges are required when installing in Windows NT 4.0 or Windows 2000.*

# Macintosh setup

## Printer driver installation (14ex)

***Note:*** *Switch off antivirus software before installing a printer driver.*

1. Switch on the printer then the computer and allow the MacOS and Finder to load normally.
2. Insert the disk into the CD-ROM drive on the computer then double click on the **Installer** icon.
3. Click on the [**Language]** button then choose the required language.
4. Click on the [**Instal**l] button.
5. When the installation is complete, click on the [**Quit]** button and restart the computer.
6. After the computer has restarted, open the [**Chooser]** from the **Apple** menu.
7. Click on the OKIPAGE 14*ex* (USB) icon then select the printer name that appears in the dialogue box.
8. Close [**Chooser**].
9. From the File menu, select Page Setup. Choose the required page size and orientation, then click on the **OK** button.

## Printer driver installation (14i) - Ethernet

***Note:*** *Switch off antivirus software before installing a printer driver.*

1. Place the Printer Software CD-ROM in the CD-ROM drive.
2. Open [**Chooser**] in the Apple menu.
3. Click on [Laserwriter 8] and select Printer name.

***Note 1:*** *If using an Ethernet network interface card, the printer name is OP and the last six digits of the Ethernet address.*

***Note 2:*** *Printer name is given as **Object** name in the self diagnostic test for the network interface card.*

4. Click on [Create] and an icon should appear beside the printer name.
5. When prompted to select a PPD, browse to the **Language\ Drivers** folder on the CD

6. Close [**Chooser**].

***Note:*** *The printer icon should appear on the desktop.*

## Printer driver installation (14i) - USB

There are 3 steps that must be performed to install the printer driver using a USB connection:

1. Run the installer; this installs the plugin file & PPD to the System Folder, and also installs the "Desktop Printer Utility" in a folder on the Startup disk called "Desktop Printer Utility".
2. Use the "Desktop Printer Utility" to setup the connection to the printer; this is required because the Mac Chooser does not discover USB PostScript printers.
3. Enable the plugin file via the driver dialog.

### Run the Installer Program

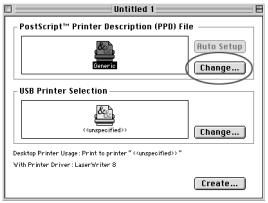
Double-click on the "Install OKIPAGE 14i" file. This installs the LaserWriter plugin file, PPD file, and the Apple Desktop Printer Utility.

### Use the Desktop Printer Utility

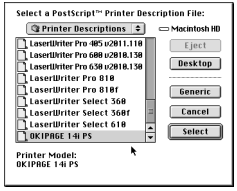
1. Open the "Desktop Printer Utility" folder that the installer has created, and double-click on the icon called "Desktop Printer Utility".
2. Select "Printer (USB)" and click **OK**.

***Note:*** *Please ensure that the dropdown menu at the top says "With: LaserWriter 8"*

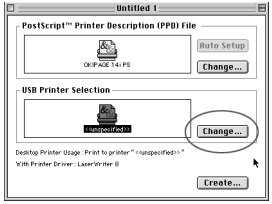
3. Select the top "Change..." button to select the PPD (Postscript Printer Description) file for the printer.



4. Locate the PPD file by scrolling down the list of PPD files:




5. Next, click on the lower "Change..." button to select the printer.




6. Choose the printer that is connected to your Mac and click OK.

7. Finally, click on the "Create..." button and this will prompt you to give the printer a name. Enter the name you wish to use and click "Save".

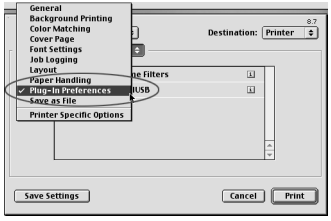
This will create a printer icon on your Mac desktop.

## Enable the plug-in file

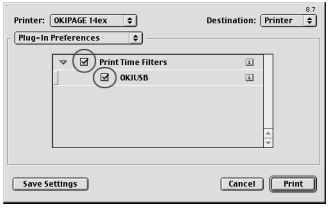
***Note:*** *This step is only necessary if you are using Apple's LaserWriter 8.7 (or higher) driver. This is commonly installed on MacOS 9 or higher. You can check the version of LaserWriter by looking at the top-right corner of the print dialog.*

1. Choose File > Print, (e.g File > Print Desktop).

2. When inside the printer dialog, select "Plug-in Preferences" from the dropdown list.




3. In the dialog that appears, please ensure that the "Print Time Filters" and "OKIUSB" checkboxes are enabled.




4. Finally, click on "Save Settings" to save settings as default.

# Language

If required, the language displayed on the liquid crystal display (LCD) can be changed as follows:

1. Press the ON-LINE button so that the display reads OFF-LINE (Ready indicator off).
2. Press and hold MENU 1/*Menu 2* until PRINT MODE appears in the LCD.
3. Press MENU 1/*Menu 2* until LANGUAGE appears in the LCD.
4. Press ENTER.
5. Press the ▶/*Reset* button until the required language appears.
6. Press ENTER.
7. Press the ON-LINE button so that the display reads ON-LINE (Ready indicator on).

# Creating sample printouts

## Demo page

The demonstration page shows some of the features of the printer and can be printed as follows:

1. Press the ON-LINE button so that the display reads OFF-LINE (Ready indicator off).
2. Press the FORM FEED/*Print Demo* button for at least two seconds and the message DEMO HP PCL6 is displayed.
3. Press ENTER.
4. The message PRINT DEMO is displayed and a demo page is then printed.

## Sample font listing

A fonts listing shows what fonts are resident in the printer and can be printed as follows:

1. Press the ON-LINE button so that the display reads OFF-LINE (Ready indicator off).
2. Press the TRAY TYPE/*Print Fonts* button for at least two seconds and the message FONTS HP PCL6 is displayed.
3. Press ENTER.
4. The message PRINT FONTS is displayed and a list of fonts installed in the printer is then printed.

## Menu list

The functions of the printer are controlled by means of the keys on the operator panel. These functions are arranged into a menu system for ease of use.

1. Press the ON-LINE button so that the display reads OFF-LINE (Ready indicator off).
2. Press and hold the PAPER SIZE/*Print Menu* key for at least 2 seconds and the message MENU HP PCL6 is displayed.
3. Press ENTER.
4. The message PRINT MENU is displayed and a configuration list showing the factory default and current user deafult settings for menu items is then printed.

***Note:*** *The settings of menu items are explained in the User's Guide.*

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